CANADIAN JOURNAL OF CIVIL ENGINEERING

REVUE CANADIENNE DE GÉNIE CIVIL

Volume 14, 1987

Author Index / index des auteurs

Abdel-Sayed, G., and Chung, K.-C. Composite cold-formed steel – concrete columns, 295
Adams, B.J., and Heinke, G.W. Canada's urban infrastructure: rehabilitation needs and approaches, 700
Agarwal, A.C., and Cheung, M.S. Development of loading-truck model and live-load factor for the Canadian Standards Association CSA-S6 code, 58
Agrawal, S.K., and Bewtra, J.K. Modifications to the design procedure for grit chambers, 216
Ahuja, H.N. Computers in construction planning and control. *By* M. J. Jackson, 862
Aïtcin, P.-C. see Benmokrane, B., 690
Aldworth, G.A. see Alexander, L.J.D., 24
Alexander, L.J.D., and Aldworth, G.A. Model test of a pumping station wet well, 24
Allen, J.H. Developments in breakwaters, 590
Allen, J.H., and Sharp, J.J. Environmental considerations for ocean outfalls and land-based treatment plants, 363
Al-Manaseer, A.A., and Nasser, K.W. Analysis of beams with large openings using nonlinear finite element procedure, 302
Al-Manaseer, A.A., and Phillips, D.V. Numerical study of some post-cracking material parameters affecting nonlinear solutions in RC deep beams, 655
Anderson, B.C., and Mavinic, D.S. Improvement in aerobic sludge digestion through pH control: initial assessment of pilot-scale studies, 477
Anekwe, C.M. Approximate method of analysis for braced barrel vaults, 837
Ashenhurst, P.B. see Smith, A.A., 420
Ayyaswami, A. see Viraraghavan, T., 230
Aziz, T.S. see Ghobarah, A., 780
Bahlis, J.B., and Mirza, M.S. Nonlinear analysis of planar reinforced concrete structures, 771
Bakht, B., and Tharmabala, T. Steel–wood composite bridges and their static load response, 163
Bakht, B., and Jaeger, L.G. Behaviour and evaluation of pin-connected steel truss bridges, 327
Bakht, B. see Holowka, M., 861
Baktash, P., and Marsh, C. Damped moment-resistant braced frames: a comparative study, 342
Balendra, T., and Heidebrecht, A.C. A foundation factor for earthquake design using the Canadian code of practice, 498
Ballivy, G. see Benmokrane, B., 690
Barbour, S.L. see Wong, D.K.H., 638
Baskaran, A. see Stathopoulos, T., 418
Batchelor, B.deV. see el Shahawi, M., 269
Beaulieu, D. Steel structures: recent research advances and their applications to design. *Edited by* M. N. Pavlovic, 859
Beaulieu, D., and Picard, A. A reevaluation of the Canadian provisions pertaining to steel beam–column design and frame stability, 593
Beaulieu, D. see Picard, A., 49
Becker, N.K., Patterson, H.R., and McCorquodale, J.A. Design and construction of a 3 km (2 mi) long shoreline protection system for the City of Luna Pier: Reply, 140
Becker, N.K., Patterson, H.R., and McCorquodale, J.A. Design and construction of a 3 km (2 mi) long shoreline protection system for the City of Luna Pier: Reply, 292
Béliveau, J.-G. System identification of civil engineering structures, 7
Beliveau, J.G. Structural dynamics for the practising engineer. *By* Max Irvine, 859
Benmokrane, B., Aïtcin, P.-C., et Ballivy, G. Injection d'ancrages à base de ciment Portland dans l'arctique, 690
Bérubé, M.-A., et Fournier, B. Le barrage Sartigan dans la Beauce (Québec), Canada : un cas-type de détérioration du béton par des réactions alcalis – granulats, 372
Bewtra, J.K. see Agrawal, S.K., 216
Bild, S. Durability design criteria for bituminous pavements on orthotropic steel bridge decks, 41
Bishop, C.T. Wave attenuation by rubble-lined channel walls, 828
Bobrowski, J. The Saddledome: the Olympic ice stadium in Calgary, 239
Booy, C., and Lye, L.M. Accumulated basin storage as a factor in the correlation structure of annual peak flows on the Red River: Reply, 290
Bourdon, F. see Florentz, M., 278
Braaksma, J.P., Ridley, R.C., and Jones, P.H. The effect of roadway salting on safety and mobility, 527
Bradford, M.A. see Cuk, P.E., 718
Bray, D.I., and Davar, K.S. Resistance to flow in gravelbed rivers, 77
Bray, D.I., and Davar, K.S. Resistance to flow in gravel-bed rivers: Reply, 857
Bray, D.I., and Davar, K.S. Erratum: Resistance to flow in gravel-bed rivers, 863
Breen, J.E., Kreger, M.E., White, C.D., and Clark, G.C. Field evaluation and model test of a composite wing-girder bridge, 753
Brochu, R. see Carignan, M., 111
Brown, T.G., and Cheung, M.S. Auto-determination of ice forces on arctic structures, 571
Burnett, E.F.P. Design life of buildings, 588

Calabrese, J.M. see Temple, M.C., 534
Calvache, A. see Llamas, J., 795
Campbell, T.I. see Kong, W.L., 519
Campbell, T.I. see Jofriet, J.C., 542
Carette, G.G., and Malhotra, V.M. Characterization of Canadian fly ashes and their relative performance in concrete, 667
Carignan, M., Morin, D., Brochu, R., et Royer, A. Évaluation du potentiel de la télédétection spatiale pour l'étude du milieu urbain: le cas de Montréal, 111
Cerruti, L.M., and Marti, P. Staggered shear design of concrete beams: large-scale tests, 257
Chaudhry, M.H., and Schulte, A.M. Computation of steady-state, gradually varied flows in parallel channels: Reply, 422
Cheung, M.S., Gardner, N.J., and Ng, S.F. Ultimate load distribution characteristics of a model slab-on-girder bridge, 739
Cheung, M.S. see Agarwal, A.C., 58
Cheung, M.S. see Nessim, M.A., 381
Cheung, M.S. see Brown, T.G., 571
Chow, K.C.A. see Watt, W.E., 136
Chung, K.-C. see Abdel-Sayed, G., 295
Clark, G.C. see Breen, J.E., 753
Crites, R.W. see Graveland, D.N., 142
Cuk, P.E., Bradford, M.A., and Trahair, N.S. Erratum: Inelastic lateral buckling of steel beam–columns, 718
Czinkota, S. Structural analysis of pipeline stresses created by line lowering, 719
Davar, K.S. see Bray, D.I., 77
Davar, K.S. see Bray, D.I., 857
Davar, K.S. see Bray, D.I., 863
Day, R.L. see Gifford, P.M., 614
Dewey, R.J. see Palmer, M.D., 559
Dinescu, T. see Gardner, N.J., 294
Ding, D. Problems in calculating the flexure of beams on elastic foundation, 581
Douglas, R.A. Design and construction of a 3 km (2 mi) long shoreline protection system for the City of Luna Pier: Discussion, 139
Droste, R.L. see Kennedy, K.J., 631
Dunberry, E., Leblanc, D., and Redwood, R.G. Cross-section strength of concrete-filled HSS columns at simple beam connections, 408
Dunford, W.G. see Ward, P.R.B., 284
Easa, S.M., and Strelesky, R.H. Evaluation of signal timing and parking strategies on a signalized urban arterial, 468
Elbadry, M.M. see Ghali, A., 314
El-Bahrawy, A.N., and Smith, A.A. A methodology for optimal design of pipe distribution networks, 207
Ellis, J.S. Rigid latticed steel frames: two large-scale tests and failure predictions, 602
el Shahawi, M., and Batchelor, B.deV. Design methods for partially prestressed concrete—a review, 269
Elwi, A.E. see Mok, J., 97
Ersoy, U., Tankut, A.T., and Uzumeri, S.M. The influence of strain history and strain gradient on confined concrete, 336
Fay, D.M., Watt, W.E., and Watts, D.G. A stochastic real-time spring flood forecasting system for Carman, Manitoba, 87
Fazio, P., Gowri, K., and Ha, K.H. Rectangular hybrid elements for the analysis of sandwich plate structures, 455
Ferahian, R.H. Seismic ground-motion computations at low probabilities: Discussion, 714
Fernández, R. see Llamas, J., 795
Ferner, S.J., and Wigham, J.M. The use of snow-pillow data for melt rate input to the streamflow synthesis and reservoir regulation watershed model, 118
Finch, G.R., and Smith, D.W. Ozone disinfection of secondary effluent containing antibiotic-resistant *Escherichia coli*, 234
Florentz, M., Hascoet, M.C., and Bourdon, F. Biological phosphorus removal at an experimental full-scale plant in France, 278
Foschi, R.O., and Gupta, A. Reliability of floors under impact vibration, 683
Foschi, R.O. see Karacabeyli, E., 621
Fournier, B. see Bérubé, M.-A., 372
Gardner, N.J. Slip form techniques. *By* T. Dinescu and C. Radulescu, 294
Gardner, N.J. see Cheung, M.S., 739
Gerard, R. Design and construction of a 3 km (2 mi) long shoreline protection system for the City of Luna Pier: Discussion, 292
Ghali, A., and Elbadry, M.M. Cracking of composite prestressed concrete sections, 314
Ghobarah, A., and Aziz, T.S. Seismic response of tuned systems, 780
Ghoneim, N.S., and Sargious, M. Review of advantages and applications of disaggregate mode choice models in intercity passenger travel, 763
Gifford, P.M., Langan, B.W., Day, R.L., Joshi, R.C., and Ward, M.A. A study of fly ash concrete in curb and gutter construction under various laboratory and field curing regimes, 614
Gowri, K. see Fazio, P., 455
Graveland, D.N. Handbook of land treatment systems for industrial and municipal wastes: *By* S.C. Reed and R.W. Crites, 142
Graveland, D.N. Reuse of sewage effluent, 589
Green, R. Propped and cantilevered rigid walls, 717
Green, R. see Jofriet, J.C., 542
Gupta, A. see Foschi, R.O., 683
Ha, K.H. see Fazio, P., 455

Hanaeus, J. Swedish field experiences with chemical precipitation in stabilization ponds, 33
Harris, P.J. Computer analysis of structures—matrix structural analysis structured programming. *By* Siegfried M. Holzer, 860
Hascoet, M.C. see Florentz, M., 278
Hatzinikolas, M., Longworth, J., and Warwaruk, J. Drilled-in inserts in masonry construction under combined shear and tension, 694
Heidebrecht, A.C. see Balendra, T., 498
Heinke, G.W. see Adams, B.J., 700
Holowka, M. Bridge analysis simplified. *By* Baidar Bakht and Leslie G. Jaeger, 861
Holzer, S.M. see Harris, P.J., 860
Hope, B. Improvement of concrete durability: *By* Institution of Civil Engineers, 425
Horne, M.R., see Springfield, J., 425
Irvine, M. see Beliveau, J.G., 859
Jackson, M.J. see Ahuja, H.N., 862
Jaeger, L.G. see Bakht, B., 327
Jaeger, L.G. see Holowka, M., 861
James, W. see Shivalingaiah, B., 131
Jarvis, R. see Palmer, M.D., 320
Jofriet, J.C., Green, R., and Campbell, T.I. Design recommendations for reinforced concrete cylindrical storage structures for aqueous materials, 542
Jokinen, E.P., and Scanlon, A. Field measured two-way slab deflections, 807
Jones, P.H. see Braaksma, J.P., 527
Jordaan, I.J. see Nessim, M.A., 381
Joshi, R.C. see Gifford, P.M., 614
Kamphuis, J.W. Developments in hydraulic engineering. *By* P. Novak (*editor*), 591
Karacabeyli, E., and Foschi, R.O. Glulam rivet connections under eccentric loading, 621
Kennedy, D.J.L. see Kriviak, G.J., 139
Kennedy, K.J., and Droste, R.L. Diffusional limitations of anaerobic biofilms, 631
Kingston, K. see Quick, M.C., 196
Kirby, P.A. see Nethercot, D.A., 485
Kong, W.L., and Campbell, T.I. Thermal pressure due to an ice cap in an elevated water tank, 519
Kouwen, N. see Puskas, J., 510
Kreger, M.E. see Breen, J.E., 753
Kriviak, G.J., and Kennedy, D.J.L. Standardized flexible end plate connections for steel beams: Reply, 139
Kruysse, A. Civil engineering heritage—Wales and Western England. *By* W.J. Sivewright (*editor*), 142
Lachance, L., Picard, A., et Michaud, Y. Étude expérimentale sur les poutres mixtes, 171
Lai, S.-S., and Will, G.T. INTASK—a program for postelastic dynamic analysis of three-dimensional structures, 127
Langan, B.W. see Gifford, P.M., 614
Lau, P.W.C. Factors affecting the behaviour and modelling of toothed metal-plate joints, 183
Leblanc, D. see Dunberry, E., 408
Lei, S. see Quick, M.C., 196
Lind, N.C. Calibration basis for structural glass design, 788
Llamas, J., Fernández, R., et Calvache, A. Génération de séries synthétiques de débit, 795
Longworth, J. see Hatzinikolas, M., 694
Lye, L.M. see Booy, C., 290
MacGregor, J.G. see Mirza, S.A., 439
MacIntyre, J.R., and Van Dalen, K. Standardized flexible end plate connections for steel beams: Discussion, 136
Macnaughton, R.A. Wind resistance of a narrow partially built house: Reply, 419
Malhotra, V.M. see Carette, G.G., 667
Marsh, C. see Baktash, P., 342
Marti, P. see Cerruti, L.M., 257
Massiéra, M., et Paré, J.-J. La tranchée à boue lourde du barrage OA-11, 844
Mavinic, D.S. see Anderson, B.C., 477
McBean, E. see Puskas, J., 510
McCloskey, D.C. see Temple, M.C., 534
McCorquodale, J.A. see Becker, N.K., 140
McCorquodale, J.A. see Becker, N.K., 292
McCulloch, W.J., Militano, C., and Rizkalla, S. Behavioral load testing of the Disraeli facility, 103
Michaud, Y. see Lachance, L., 171
Mikhailovsky, L. see Scanlon, A., 19
Mikhailovsky, L. see Scanlon, A., 145
Militano, C. see McCulloch, W.J., 103
Mills, D.L. Guideway design and construction for Vancouver Advanced Light Rapid Transit, 347
Mirza, M.S. see Bahlis, J.B., 771
Mirza, S.A., and MacGregor, J.G. Limit states design of concrete slender columns, 439

Mok, J., and Elwi, A.E. Shear behavior of large-diameter fabricated steel tubes, 97
Morin, D. see Carignan, M., 111
Morris, G.A., and Packer, J.A. Beam-to-column connections in steel frames, 68
Morris, L.J. see Springfield, 425
Murthy, A.S.N., Soliman, A.H., and Sharma, S.C. A case study of Champlain toll station, 732
Muzik, I. A general expression for basin lag time: Discussion, 135
Nasser, K.W. see Al-Manaseer, A.A., 302
Neill, C.R. Resistance to flow in gravel-bed rivers: Discussion, 857
Nessim, M.A., Cheung, M.S., and Jordaan, I.J. Ice action on fixed offshore structures: a state-of-the-art review, 381
Nethercot, D.A., Kirby, P.A., and Rifai, A.M. Columns in partially restrained construction: analytical studies, 485
Ng, S.F. see Cheung, M.S., 739
Norum, D.I. see Thooyamani, K.P., 710
Novak, P. see Kamphuis, J.W., 591
Nowak, A.S. see Tharmabala, T., 155
Oh, J.Y. see Sharma, S.C., 728
Oliver, D.C. see Ostrander, J.R., 429
Ostrander, J.R., and Oliver, D.C. Construction of the Broadway Bridge at Saskatoon, Saskatchewan, in 1932, 429
Packer, J.A. see Morris, G.A., 68
Palmer, M.D., and Dewey, R.J. Verification of a numerical beach water quality model, 559
Palmer, M.D., Jarvis, R., and Thompson, L. Drogue-cluster and dye-dispersion measurements, 320
Paré, J.-J. see Massiéra, M., 844
Patry, G.G. Recursive water quality forecasting models for urban catchments, 221
Patterson, H.R. see Becker, N.K., 140
Patterson, H.R. see Becker, N.K., 292
Pavlovic, M.N., see Beaulieu, D., 859
Pernica, G. Effect of architectural components on the dynamic properties of a long-span floor system, 461
Pérusse, B. see Picard, A., 49
Phillips, D.V. see Al-Manaseer, A.A., 655
Picard, A., Beaulieu, D., and Pérusse, B. Rational restraint of a simple column base connection, 49
Picard, A. see Lachance, L., 171
Picard, A. see Beaulieu, D., 593
Pressnail, K.D., and Timusk, J. Adfreezing of insulated residential basements: an hypothesis, 708
Pulfrey, D.L. see Ward, P.R.B., 284
Puskas, J., McBean, E., and Kouwen, N. Behaviour and transport of oil under smooth ice, 510
Quick, M.C., Kingston, K., and Lei, S. Onset of sediment motion under waves and currents, 196
Radulescu, C. see Gardner, N.J., 294
Rainer, J.H. Force reduction factors for the seismic provisions of the National Building Code of Canada, 447
Redwood, R.G. see Dunberry, E., 408
Reed, S.C. see Graveland, D.N., 142
Ridley, R.C. see Braaksma, J.P., 527
Rifai, A.M. see Nethercot, D.A., 485
Rizkalla, S. see McCulloch, W.J., 103
Rodway, L.E. Testing of zero-slump piling concrete, 308
Royer, A. see Carignan, M., 111
Russell, H.G. see Shiu, K.-N., 649
Sargious, M. see Ghoneim, N.S., 763
Scanlon, A., and Mikhailovsky, L. Full-scale load test of three-span concrete highway bridge, 19
Scanlon, A., and Mikhailovsky, L. Strength evaluation of an existing concrete bridge based on core and nondestructive test data, 145
Scanlon, A. see Jokinen, E.P., 807
Schulte, A.M. see Chaudhry, M.H., 422
Sharma, S.C. The driver population factor and its influence on highway cost–volume curves, 584
Sharma, S.C., Oh, J.Y., and Wyatt, J.J. Estimation of design hourly volume from seasonal traffic counts, 728
Sharma, S.C. see Murthy, A.S.N., 732
Sharp, J.J. see Allen, J.H., 363
Shiu, K.-N., and Russell, H.G. Effects of time-dependent concrete properties on prestress losses, 649
Shivalingaiah, B., and James, W. Stormwater pollution modelling: minor sources of pollutants in urban sewer networks, 131
Sivakumaran, K.S. Load capacity of uniformly compressed cold-formed steel section with punched web, 550
Sivewright, W.J. see Kruysse, 142
Smith, A. Disposal of acid-bearing and acid-generating sludges in the fertilizer manufacturing industry, 1
Smith, A.A., and Ashenhurst, P.B. Computation of steady-state, gradually varied flows in parallel channels: Discussion, 420
Smith, A.A. see El-Bahrawy, A.N., 207
Smith, D.W. see Finch, G.R., 234
Soliman, A.H. see Murthy, A.S.N., 732

Springfield, J. Plastic design of low-rise frames: *By* M.R. Horne and L.J. Morris, 425
Stathopoulos, T., and Baskaran, A. Wind resistance of a narrow partially built house: Discussion, 418
Strelesky, R.H. see Easa, S.M., 468
Tankut, A.T. see Ersoy, U., 336
Temple, M.C., McCloskey, D.C., and Calabrese, J.M. Interconnection of boxed angle compression members, 534
Tharmabala, T., and Nowak, A.S. Mathematical models for bridge reliability, 155
Tharmabala, T. see Bakht, B., 163
Thompson, L. see Palmer, M.D., 320
Thooyamani, K.P., and Norum, D.I. Explicit infiltration equations based on the Green–Ampt model, 710
Timusk, J. see Pressnail, K.D., 708
Trahair, N.S. Erratum: Design strengths of steel beam–columns, 718
Trahair, N.S. see Cuk, P.E., 718
Uzumeri, S.M. see Ersoy, U., 336
Van Dalen, K. see MacIntyre, J.R., 136
Viraraghavan, T., and Ayyaswami, A. Use of peat in water pollution control: a review, 230
Ward, M.A. see Gifford, P.M., 614
Ward, P.R.B., Dunford, W.G., and Pulfrey, D.L. Performance of small progressive cavity pumps with solar power, 284
Warkentin, A.A. Accumulated basin storage as a factor in the correlation structure of annual peak flows on the Red River: Discussion, 288
Warwaruk, J. see Hatzinikolas, M., 694
Watt, W.E., and Chow, K.C.A. A general expression for basin lag time: Reply, 136
Watt, W.E. see Fay, D.M., 87
Watts, D.G. see Fay, D.M., 87
Weichert, D.H. Seismic ground-motion computations at low probabilities: Reply, 715
White, C.D. see Breen, J.E., 753
Wigham, J.M. see Ferner, S.J., 118
Will, G.T. see Lai, S.-S., 127
Wong, D.K.H., and Barbour, S.L. Studies of the infiltration and migration of brine in potash tailings, 638
Wyatt, J.J. see Sharma, S.C., 728
Yu, T.-H. Contrete trussed arch bridges in China, 820